

## CLAIMS

1. A process for producing an aliphatic polyester with a reduced content of residual cyclic ester, comprising: producing an aliphatic polyester by ring-opening polymerization of a cyclic ester, wherein a  
5 latter period of polymerization is proceeded with by way of solid-phase polymerization, and the resultant aliphatic polyester is subjected to removal of residual cyclic ester by release to a gas phase.
2. A production process according to claim 1, wherein solid-phase  
10 polymerization is performed at a temperature of below 195 °C.
3. A production process according to claim 1 or 2, wherein the cyclic ester is glycolide or a mixture of glycolide and lactide.
- 15 4. A production process according to any of Claims 1-3, wherein in the removal of residual cyclic ester, the aliphatic polyester resultant after the polymerization in a particle form is caused to contact a heated dry gas, thereby entraining the residual cyclic ester with the gas and removing the residual cyclic ester from the aliphatic polyester.  
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5. A production process according to claim 4, wherein the heated dry gas is at a temperature of 120 - 225 °C.
- 25 6. A production process according to any of claims 1-3, wherein in the removal of residual cyclic ester, the aliphatic polyester resultant after the polymerization in a particle form is placed under an action of a reduced pressure, thereby liberating the residual cyclic ester into a gas

phase of the reduced pressure and removing the residual cyclic ester from the aliphatic polyester.

7. A production process according to any of claim 1-6, wherein the  
5 aliphatic polyester resultant after the polymerization is pelletized together with a thermal stabilizer and then the pelletized aliphatic polyester is subjected to the removal of residual cyclic ester.

8. A production process according to any of claim 4-7, wherein the  
10 aliphatic polyester subjected to the removal of residual cyclic ester is in a form of particles having a diameter of at most 8 mm.

9. An aliphatic polyester obtained through a process according to any of claims 1-8, having a residual cyclic ester content of less than 0.2  
15 wt.%